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(FILE 'HOME' ENTERED AT 16:23:03 ON 25 SEP 2003)

FILE 'HCAPLUS' ENTERED AT 16:23:18 ON 25 SEP 2003

L1 2034 SEA ABB=ON PLU=ON PTSH OR PHOSPHOTRANSFERASE SYSTEM OR
COMPONENT H

L2 4 SEA ABB=ON PLU=ON L1 (L) (CORYNEBACTERIA OR CORYNEBACTERIA
GLUTAMICUM OR (BACTERIA (L) CORYNEFORM))

L3 1 SEA ABB=ON PLU=ON L2 (L) (DNA OR CDNA OR NUCLEIC ACID OR
POLYNUCLEOTIDE)

=> d ibib ab 13 1

L3 ANSWER 1 OF 1 HCPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2003:377055 HCPLUS
DOCUMENT NUMBER: 138:380500
TITLE: Protein and nucleic acid sequence of aspartate kinase
gene lysC and production of chemical compounds by
fermentation from Coryneform bacteria
INVENTOR(S): Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina;
Thierbach, Georg
PATENT ASSIGNEE(S): Degussa AG, Germany
SOURCE: PCT Int. Appl., 127 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040373	A2	20030515	WO 2002-EP8464	20020730
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2001-309878P P 20010806
AB The invention relates to coryneform bacteria which have, in addn. to at least one copy, present at the natural site (locus), of an open reading frame (ORF), gene or allele which codes for the synthesis of a protein or an RNA. In each case a second, optionally third or fourth copy of this open reading frame (ORF), gene or allele at in each case a second, optionally third or fourth site in a form integrated into the chromosome and processes for the prepn. of chem. compds. by fermn. of these bacteria. The nucleotide and protein sequence of Corynebacterium aspartate kinase gene lysC allele is presented. The invention provides a process for the prepn. of L-lysine by fermn.

ACCESSION NUMBER: 2003:377055 HCAPLUS

DOCUMENT NUMBER: 138:380500

TITLE: Protein and nucleic acid sequence of aspartate kinase gene lysC and production of chemical compounds by fermentation from Coryneform bacteria

INVENTOR(S): Bathe, Brigitte; Kreutzer, Caroline; Moeckel, Bettina; Thierbach, Georg

PATENT ASSIGNEE(S): Degussa AG, Germany

SOURCE: PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040373	A2	20030515	WO 2002-EP8464	20020730
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2001-309878P P 20010806

AB The invention relates to coryneform bacteria which have, in addn. to at least one copy, present at the natural site (locus), of an open reading frame (ORF), gene or allele which codes for the synthesis of a protein or an RNA. In each case a second, optionally third or fourth copy of this open reading frame (ORF), gene or allele at in each case a second, optionally third or fourth site in a form integrated into the chromosome and processes for the prepn. of chem. compds. by fermn. of these bacteria. The nucleotide and protein sequence of Corynebacterium aspartate kinase gene lysC allele is presented. The invention provides a process for the prepn. of L-lysine by fermn.

ACCESSION NUMBER: 2002:522540 HCAPLUS

DOCUMENT NUMBER: 137:89444

TITLE: Use of ptsH gene of Corynebacterium glutamicum for L-lysine biosynthesis

INVENTOR(S): Farwick, Mike; Mockel, Bettina; Pfefferle, Walter

PATENT ASSIGNEE(S): Germany

SOURCE: U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 755,187.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002090700	A1	20020711	US 2001-819930	20010329
DE 10001101	A1	20010719	DE 2000-10001101	20000113
US 2002094554	A1	20020718	US 2001-755187	20010108

PRIORITY APPLN. INFO.: DE 2000-10001101 A 20000113
US 2001-755187 A2 20010108

AB The invention relates to the ptsH gene of Corynebacterium glutamicum coding for component H of the phosphotransferase system. Also provided is a process for the fermentative prodn. of L-amino acids with enhancement of the ptsH gene and the use of the above polynucleotides as primer or hybridization probe. In another embodiment, mutants of the ptsH gene are

provided.

L2 ANSWER 3 OF 4 HCPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:220795 HCPLUS
DOCUMENT NUMBER: 136:261906
TITLE: Sequences of ptsI gene from corynebacteria and use thereof in production of L-lysine
INVENTOR(S): Moeckel, Bettina; Hans, Stephan; Schischka, Natalie; Pfefferle, Walter
PATENT ASSIGNEE(S): Degussa A.-G., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022827	A1	20020321	WO 2001-EP10072	20010831
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10045496	A1	20020328	DE 2000-10045496	20000914
AU 2001089858	A5	20020326	AU 2001-89858	20010831
EP 1317549	A1	20030611	EP 2001-969679	20010831
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002132323	A1	20020919	US 2001-950788	20010913
DE 2000-10045496 A 20000914				
WO 2001-EP10072 W 20010831				

PRIORITY APPLN. INFO.:
AB The ptsI gene of Corynebacterium glutamicum ATCC13032 encoding phosphotransferase system enzyme I is cloned for use in increasing the efficiency of ferment. of L-lysine by coryneform bacteria. Methods and culture media for fermentative prepn. of L-lysine with recombinant bacterial strains transformed with these vectors are also provided. Enhancement of the ptsI gene expression by ptsI shuttle vector could increase the yield of L-lysine in a Corynebacterium host. The fermentatively prep. L-lysine are useful in pharmaceutical industry and foodstuff industry and very particularly in animal nutrition.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 4 HCPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:523505 HCPLUS
DOCUMENT NUMBER: 135:121253
TITLE: The ptsH gene of Corynebacterium glutamicum and its use in increasing yields of lysine in fermentation
INVENTOR(S): Farwick, Mike; Moeckel, Bettina; Pfefferle, Walter
PATENT ASSIGNEE(S): Degussa A.-G., Germany
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10001101	A1	20010719	DE 2000-10001101	20000113
US 2002094554	A1	20020718	US 2001-755187	20010108
ZA 2001000332	A	20010726	ZA 2001-332	20010111
EP 1118666	A1	20010725	EP 2001-100695	20010112

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
JP 2001224390 A2 20010821 JP 2001-5671 20010112
CN 1319667 A 20011031 CN 2001-100614 20010112
BR 2001000063 A 20020305 BR 2001-63 20010112
US 2002090700 A1 20020711 US 2001-819930 20010329
PRIORITY APPLN. INFO.: DE 2000-10001101 A 20000113
US 2001-755187 A2 20010108

AB The **ptsH** gene of *Corynebacterium glutamicum* ATCC13032 encoding component **H** of the **phosphotransferase system** is cloned and characterized for use in increasing the efficiency of ferment. of lysine by **coryneform bacteria**. The gene was identified by querying a *C. glutamicum* sequence database for homologs of known **ptsH** genes. Disruption of the gene increased the yield of lysine in a *Corynebacterium* host from 9.54 g lysine/L at 13.1 OD660 to 12.29 g lysine/L at 12.7 OD660.

WEST Search History

DATE: Thursday, September 25, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
L11	L10 and @ad<20000113	20	L11
L10	L9 and (dna or cdna or nucleic acid or polynucleotide)	41	L10
L9	L8 and (corynebacteria or corynebacteria glutamicum)	45	L9
L8	Ptsh or phosphotransferase system or component H	1939	L8
L7	L6 or l5 or l4 or l3 or l2 or l1	31997	L7
L6	((536/23.2)!.CCLS.)	9100	L6
L5	((530/350)!.CCLS.)	11899	L5
L4	((435/320.1)!.CCLS.)	20327	L4
L3	((435/252.32)!.CCLS.)	127	L3
L2	((435/252.3)!.CCLS.)	7399	L2
L1	((435/69.1)!.CCLS.)	15020	L1

END OF SEARCH HISTORY

WEST

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 20 of 20 returned.** 1. Document ID: US 20020155521 A1

L11: Entry 1 of 20

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155521

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155521 A1

TITLE: APPLICATION OF GLUCOSE TRANSPORT MUTANTS FOR PRODUCTION OF AROMATIC PATHWAY COMPOUNDS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Desc
Image												

 2. Document ID: US 20020120116 A1

L11: Entry 2 of 20

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020120116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020120116 A1

TITLE: ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Desc
Image												

 3. Document ID: US 20020045737 A1

L11: Entry 3 of 20

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020045737

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020045737 A1

TITLE: ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. Desc
Image												

 4. Document ID: US 6617156 B1

L11: Entry 4 of 20

File: USPT

Sep 9, 2003

US-PAT-NO: 6617156

DOCUMENT-IDENTIFIER: US 6617156 B1

TITLE: Nucleic acid and amino acid sequences relating to Enterococcus faecalis for diagnostics and therapeutics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
Image												

 5. Document ID: US 6586214 B1

L11: Entry 5 of 20

File: USPT

Jul 1, 2003

US-PAT-NO: 6586214

DOCUMENT-IDENTIFIER: US 6586214 B1

TITLE: Method for increasing the metabolic flux through the pentose phosphate cycle in coryneform bacteria by regulation of the phosphoglucose isomerase (pgi gene)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 6. Document ID: US 6583275 B1

L11: Entry 6 of 20

File: USPT

Jun 24, 2003

US-PAT-NO: 6583275

DOCUMENT-IDENTIFIER: US 6583275 B1

TITLE: Nucleic acid sequences and expression system relating to Enterococcus faecium for diagnostics and therapeutics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 7. Document ID: US 6537773 B1

L11: Entry 7 of 20

File: USPT

Mar 25, 2003

US-PAT-NO: 6537773

DOCUMENT-IDENTIFIER: US 6537773 B1

TITLE: Nucleotide sequence of the mycoplasma genitalium genome, fragments thereof, and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 8. Document ID: US 6489100 B1

L11: Entry 8 of 20

File: USPT

Dec 3, 2002

US-PAT-NO: 6489100

DOCUMENT-IDENTIFIER: US 6489100 B1

TITLE: Microorganisms and methods for overproduction of DAHP by cloned PPS gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

 9. Document ID: US 6455284 B1

L11: Entry 9 of 20

File: USPT

Sep 24, 2002

US-PAT-NO: 6455284

DOCUMENT-IDENTIFIER: US 6455284 B1

TITLE: Metabolically engineered *E. coli* for enhanced production of oxaloacetate-derived biochemicals

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

 10. Document ID: US 6448043 B1

L11: Entry 10 of 20

File: USPT

Sep 10, 2002

US-PAT-NO: 6448043

DOCUMENT-IDENTIFIER: US 6448043 B1

TITLE: *Enterococcus faecalis* EF040 and uses therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

 11. Document ID: US 6348582 B1

L11: Entry 11 of 20

File: USPT

Feb 19, 2002

US-PAT-NO: 6348582

DOCUMENT-IDENTIFIER: US 6348582 B1

TITLE: Prokaryotic polynucleotides polypeptides and their uses

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

 12. Document ID: US 6348328 B1

L11: Entry 12 of 20

File: USPT

Feb 19, 2002

US-PAT-NO: 6348328

DOCUMENT-IDENTIFIER: US 6348328 B1

TITLE: Compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 13. Document ID: US 6316232 B1

L11: Entry 13 of 20

File: USPT

Nov 13, 2001

US-PAT-NO: 6316232

DOCUMENT-IDENTIFIER: US 6316232 B1

TITLE: Microbial preparation of substances from aromatic metabolism/I

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 14. Document ID: US 6245502 B1

L11: Entry 14 of 20

File: USPT

Jun 12, 2001

US-PAT-NO: 6245502

DOCUMENT-IDENTIFIER: US 6245502 B1

** See image for Certificate of Correction **

TITLE: Target system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 15. Document ID: US 6162627 A

L11: Entry 15 of 20

File: USPT

Dec 19, 2000

US-PAT-NO: 6162627

DOCUMENT-IDENTIFIER: US 6162627 A

TITLE: Methods of identifying inhibitors of sensor histidine kinases through rational drug design

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

 16. Document ID: US 6077682 A

L11: Entry 16 of 20

File: USPT

Jun 20, 2000

US-PAT-NO: 6077682

DOCUMENT-IDENTIFIER: US 6077682 A

TITLE: Methods of identifying inhibitors of sensor histidine kinases through rational drug design

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

17. Document ID: US 5985617 A

L11: Entry 17 of 20

File: USPT

Nov 16, 1999

US-PAT-NO: 5985617

DOCUMENT-IDENTIFIER: US 5985617 A

TITLE: Microorganisms and methods for overproduction of DAHP by cloned PPS gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

18. Document ID: US 5906925 A

L11: Entry 18 of 20

File: USPT

May 25, 1999

US-PAT-NO: 5906925

DOCUMENT-IDENTIFIER: US 5906925 A

TITLE: Microorganisms and methods for overproduction of DAHP by cloned pps gene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

19. Document ID: US 5827552 A

L11: Entry 19 of 20

File: USPT

Oct 27, 1998

US-PAT-NO: 5827552

DOCUMENT-IDENTIFIER: US 5827552 A

TITLE: Production of fermented food products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

20. Document ID: US 5639648 A

L11: Entry 20 of 20

File: USPT

Jun 17, 1997

US-PAT-NO: 5639648

DOCUMENT-IDENTIFIER: US 5639648 A

TITLE: Production of fermented food

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

Terms	Documents
L10 and @ad<20000113	20

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